

## WHAT IS CLAIMED IS

1. A liquid crystal display device including a reflection portion and a transmission portion in one pixel and employing a normally black mode, wherein  
5 an orientation mode of the liquid crystal is a twist orientation, a polarization plate and one phase difference plate are provided on a viewing surface side, and a polarization plate is provided on a back surface side.
- 10 2. A liquid crystal display as set forth in claim 1, wherein a ratio  $dt/dr$  between a gap  $dt$  of said transmission portion and a gap  $dr$  of said reflection portion satisfies a relationship of  $1.7 \leq dt/dr \leq 2.05$ .
3. A liquid crystal display as set forth in  
15 claim 1, wherein the twist angle is 30 degrees to 60 degrees.
4. A liquid crystal display as set forth in claim 2, wherein the twist angle is 30 degrees to 60 degrees.
- 20 5. A liquid crystal display as set forth in claim 2, wherein the a phase difference value of said phase difference plate on the viewing surface side at a wavelength of 550 nm is 310 nm or more.
6. A liquid crystal display as set forth in  
25 claim 3, wherein the a phase difference value of said

phase difference plate on the viewing surface side at a wavelength of 550 nm is 310 nm or more.

7. A liquid crystal display as set forth in claim 4, wherein the a phase difference value of said phase difference plate on the viewing surface side at a wavelength of 550 nm is 310 nm or more.

8. A liquid crystal display as set forth in claim 1, wherein, in said phase difference plate on the viewing surface side, when a refractive index of an extension direction of the phase difference plate is  $n_x$ , a refractive index of a perpendicular direction to the extension direction is  $n_y$ , a refractive index in a normal direction with respect to the phase difference plate surface is  $n_z$ , and a value represented by the following equation is  $n_z$ ,

$$N_z = (n_x - n_z) / (n_x - n_y)$$

where,  $N_z$  satisfies the relationship of  $0 \leq N_z \leq 0.5$ .

9. A liquid crystal display as set forth in claim 2, wherein, in said phase difference plate on the viewing surface side, when a refractive index of an extension direction of the phase difference plate is  $n_x$ , a refractive index of a perpendicular direction to the extension direction is  $n_y$ , a refractive index in a normal direction with respect to the phase difference plate

surface is  $n_z$ , and a value represented by the following equation is  $n_z$ ,

$$N_z = (n_x - n_z) / (n_x - n_y)$$

where,  $N_z$  satisfies the relationship of

5  $0 \leq N_z \leq 0.5$ .

10. A liquid crystal display as set forth in claim 4, wherein, in said phase difference plate on the viewing surface side, when a refractive index of an extension direction of the phase difference plate is  $n_x$ ,  
10 a refractive index of a perpendicular direction to the extension direction is  $n_y$ , a refractive index in a normal direction with respect to the phase difference plate surface is  $n_z$ , and a value represented by the following equation is  $n_z$ ,

15  $N_z = (n_x - n_z) / (n_x - n_y)$

where,  $N_z$  satisfies the relationship of

$0 \leq N_z \leq 0.5$ .

11. A liquid crystal display as set forth in claim 1, wherein at least one side in the shape of the  
20 boundary between said transmission portion and reflection portion is a shape other than a straight line.

12. A liquid crystal display as set forth in claim 2, wherein at least one side in the shape of the boundary between said transmission portion and reflection  
25 portion is a shape other than a straight line.

13. A liquid crystal display as set forth in claim 4, wherein at least one side in the shape of the boundary between said transmission portion and reflection portion is a shape other than a straight line.

5 14. A liquid crystal display as set forth in claim 8, wherein at least one side in the shape of the boundary between said transmission portion and reflection portion is a shape other than a straight line.

10 15. A liquid crystal display as set forth in claim 9, wherein at least one side in the shape of the boundary between said transmission portion and reflection portion is a shape other than a straight line.

15 16. A liquid crystal display as set forth in claim 10, wherein at least one side in the shape of the boundary between said transmission portion and reflection portion is a shape other than a straight line.